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Organic electroluminescent device comprises a substrate, a sealing member enclosing an organic electroluminescent structure, and a mixture of a desiccant and an organic compound disposed on the inside surface of the sealing member

Patent Assignee: TDK CORP (DENK )

Inventor: EBISAWA A; ENDO H; HAYAKAWA T; KAWASHIMA M; ONITSUKA O

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1014757	A2	20000628	EP 99310599	A	19991224	200035 B
JP 2000195661	A	20000714	JP 98370280	A	19981225	200039

Priority Applications (No Type Date): JP 98370280 A 19981225

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1014757	A2	E 10	H05B-033/04	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

JP 2000195661	A	10	H05B-033/04	
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Abstract (Basic): EP 1014757 A2

NOVELTY - An organic electroluminescent device comprises a substrate, an organic electroluminescent structure formed on the substrate, and a sealing member enclosing the above structure. A mixture of a desiccant and an organic compound having a melting point of 70-200 degreesC is disposed on the inside surface of the sealing member.

USE - Organic electroluminescent device, sealing member for enclosing an organic electroluminescent structure.

ADVANTAGE - Deterioration with time of the device including a reduction of luminance with the lapse of driving time and the development and growth of dark spots are suppressed, the device initial performance is maintained over a long period of time, and the device can be manufactured through simple sealing steps at low cost.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross-sectional view of an organic EL device of the invention.

Substrate (1)

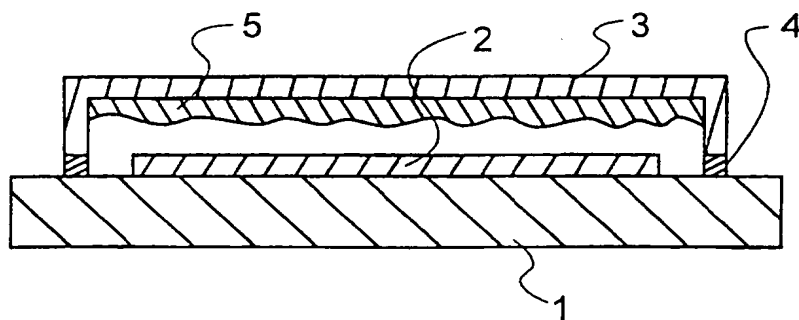
Organic electroluminescent device (2)

Sealing member (3)

Adhesive (4)

Mixture of a desiccant and an organic compound (5)

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Title Terms: ORGANIC; ELECTROLUMINESCENT; DEVICE; COMPRISE; SUBSTRATE; SEAL

; MEMBER; ENCLOSE; ORGANIC; ELECTROLUMINESCENT; STRUCTURE; MIXTURE;  
DESICCATE; ORGANIC; COMPOUND; DISPOSABLE; SURFACE; SEAL; MEMBER  
Derwent Class: L03; U14; X26  
International Patent Class (Main): H05B-033/04  
International Patent Class (Additional): H05B-033/14  
File Segment: CPI; EPI  
Manual Codes (CPI/A-N): L03-C04  
Manual Codes (EPI/S-X): U14-J02B; X26-J

WPI Acc No: 2000-658262/ 200064

XRAM Acc No: C00-199315

XRPX Acc No: N00-488059

Organic electroluminescent element for display, has water absorbing layer  
of preset thickness fixed internal periphery of container portion which  
is sealed to internal periphery of substrate

Patent Assignee: FUTABA DENSHI KOGYO KK (FUTK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

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JP 2000195662	A	20000714	JP 98373537	A	19981228	200064 B

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000195662	A		6 H05B-033/04	

Abstract (Basic): JP 2000195662 A

NOVELTY - A container portion (9) is sealed to internal periphery  
of substrate (2), thus covering organic layer (4). A water absorbing  
layer (13) of preset thickness, is fixed to internal periphery of the  
container portion.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for  
manufacturing method of organic EL element.

USE - For display purpose.

ADVANTAGE - Quantity of water absorbing material of water absorbing  
layer is comparatively increased, hence dark spot occurrence near  
container portion and sealing portion of substrate is suppressed. Since  
light emission area is not almost reduced, raise in voltage resulting  
from non-light emission area, is suppressed, hence gain of power  
consumption is decreased.

DESCRIPTION OF DRAWING(S) - The figure shows sectional view of the  
organic EL element.

Substrate (2)

Organic layer (4)

Container portion (9)

Water absorbing layer (13)

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